OPERATING INSTRUCTIONS

M300XE / M500XE / M600XE / M700XE / M1900XE

HIGH PERFORMANCE AMPLIFIER

Dear Customer,

Congratulations on your purchase and welcome to the world's finest brand of car audio. Through years of critical testing procedures and hand craftsmanship, MA Audio has created a wide range of products that reproduce music with all the clarity and richness you deserve. The MA Audio amplifiers are responsible for numerous dB Drag, USACI & IdBL World Records. This amplifier is more than capable of sending your subwoofers back to the factory for repair, so please take caution when using this amplifier.

For maximum performance we recommend you have your new MA Audio product installed by an Authorized MA Audio Dealer. Please read your warranty and retain your receipt and original carton for possible future use.

To learn more about MA Audio products and the current World Records held, please visit us at:

www.MaAudio.com

!! Attention !!

Continuous, excessive exposure to sound pressure levels in excess of 85 dB can cause a loss in hearing. While Ma Audio sound systems are capable of producing sound pressure levels greater than 85dB,they are also designed for enjoyment at reasonable levels. Please observe all local sound ordinances while listening to your MA Audio sound system

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Common Features:

- Overload, Short and Thermal Protection Circuit
- Frequency Response: 20 Hz - 20 kHz
- Full MOSFET Circuitry
- Selectable Bass Boost 0-18dB @ 45Hz
- 50dB Channel Separation
- 90dB Signal Noise Ratio
- 22K Ohm Input Impedance
- 200mV-2V Input Sensitivity
- THD <0.05%

Model Specific Specifications

Model: M300XE
500W 2 channel High Performance Amplifier
Selectable Crossover: LPF, FLAT, HPF
50Hz - 250Hz Low Pass Filter
50Hz - 250Hz High Pass Filter
2 x 125W Rms @ 4 Ohm Stereo
2 x 250W Rms @ 2 Ohm Stereo
1 x 500W Max @ 4 Ohm Bridged
Dimensions: 9" L x 10" W x 2" H

Model: M500XE
1000W 4 channel High Performance Amplifier
50Hz- 250Hz High Pass Filter / Flat
4 x 125W Rms @ 4 Ohm Stereo
4 x 225W Rms @ 2 Ohm Stereo
2 x 500W Max @ 4 Ohm Bridged
Dimensions: 13" L x 10" W x 2" H

Model Specific Specifications Continued..

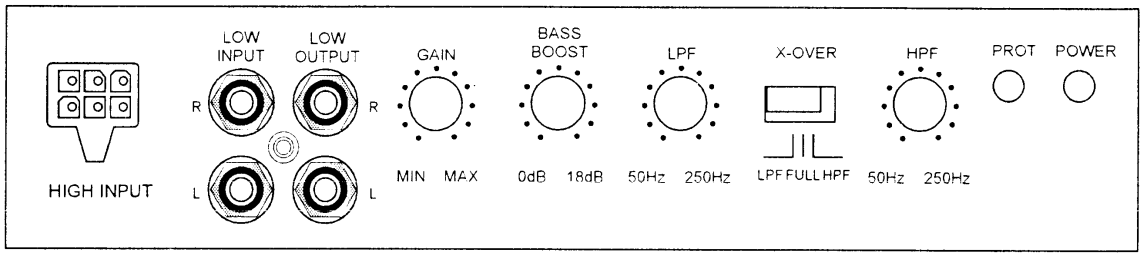
Model: M600XE
700W 2 channel High Performance Amplifier
Selectable Crossover: LPF, FLAT, HPF
50Hz - 250Hz Low Pass Filter
50Hz - 250Hz High Pass Filter
2 x 175W Rms @ 4 Ohm Stereo
2 x 350W Rms @ 2 Ohm Stereo
1 x 700W Max @ 4 Ohm Bridged
Dimensions: 10.25" L x 10" W x 2" H

Model: M700XE
1000W 2 channel High Performance Amplifier
50Hz - 250Hz Low Pass Filter
50Hz - 250Hz High Pass Filter
2 x 250W Rms @ 4 Ohm Stereo
2 x 500W Rms @ 2 Ohm Stereo
1 x 1000W Max @ 4 Ohm Bridged
Dimensions: 13" L x 10" W x 2" H

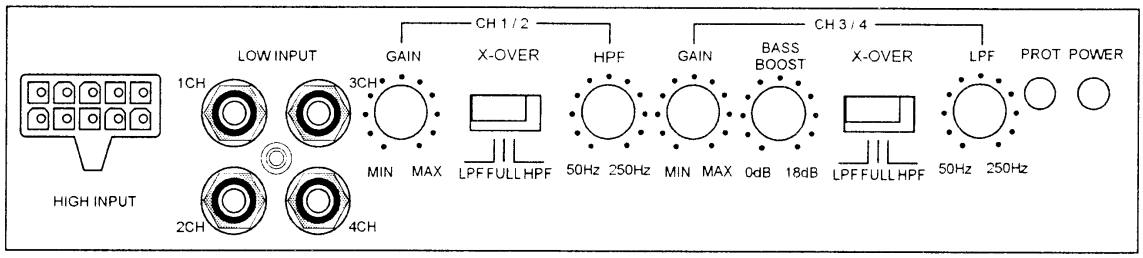
Model: M1900XE
1000W Mono-Block High Performance Amplifier
50Hz - 250Hz Low Pass Filter
1 x 500W Rms @ 4 Ohm Mono
1 x 1000W Max @ 2 Ohm Mono
Dimensions: 13" L x 10" W x 2" H

Control & Connection Locations

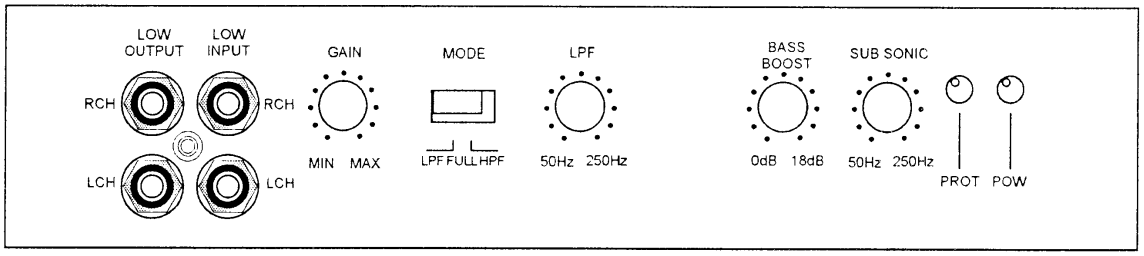
M300XE - M600XE - M700XE



M500XE



M1900XE



Controls

Gain Adjustment:
This control adjusts the amplifier's input sensitivity. Input sensitivity is variable from 100 Millivolts to 2 Volt. Turn the control clockwise to increase sensitivity. Turning the control counter-clockwise will decrease sensitivity. This control is not a volume control for the amplifier. The amplifier can be driven to full power with a wide range of signal levels. A low level signal will require increased sensitivity for full power. A high level signal will require decreased sensitivity.

RCA Inputs:
These inputs are for signal cables from a source unit. Always use high qulity RCA cables.

Controls Continued...

Bass Boost Switch:
By using the bass boost function, bass notes at 50 Hz are amplified in increments of 0dB, 6dB and 12dB.
Crossover: Adjust the crossover for your chosen installation method.
- LPF: Low Pass Filter-only (50 Hz - 250 Hz)
- FLAT: No filtering for speakers. Use with full-range speakers.
- HPF: High pass filter (50 Hz - 250 Hz)

B- Terminal (Chassis ground):
To avoid unwanted ignition noise caused by ground loops, it is essential that the amplifier be grounded to a clean, bare metal surface of the vehicles chassis.

B+ Terminal (Battery positive):
Due to the power requirements of the Amplifier, this connection should be made directly to the positive (+)terminal of the battery. For safety measure, install an in-line fuse Holder (not included) as close to the battery positive (+) terminal as possible with an ampere rating not to exceed total value of fuses on the Amplifier.

Remote Turn-On Input:
Connect to remote turn-on wire of head unit. The amplifier is turned "ON" remotely when the vehicle's head unit is turned "ON".

Variable Low-Pass Filter (50 Hz-250 Hz):
For use as a dedicated subwoofer channel, set filter switch to "LPF". Adjust variable crossover frequency with control as desired. The amplifier input circuit filters out everything above 50Hz to 250Hz (dependent on the adjustment of the frequency control), so only the deepest bass notes are amplified.

Variable High-Pass Filter (50 Hz-250 Hz):
For use as a dedicated mid-range channel, set filter switch to "HPF". The circuit filters out all frequencies below 50 Hz to 250 Hz.

Power Indicator LED:
This Blue LED will illuminate when the amplifier is turned "ON

PLANNING YOUR SYSTEM

• If you plan to expand your system by adding other components sometime in the future, ensure adequate space is left. If your head unit/source is equipped with Pre-Amp outputs, it is possible to utilize them to drive this Amplifier.

• Are your component speakers matched? The peak power rating of your speakers must be equal or greater than the Amplifier's. Speakers connect to this amplifier must have a 1-8 Ohm impedance.

• Consider both the length of your leads, and routing when determining the mounting location. Pre-Amp input Jacks require high quality shielded RCA patch cords.

MOUNTING YOUR SYSTEM

The mounting position of your Amplifier will have a great effect on its ability to dissipate the heat generated during normal operation. The Amplifier has an efficient heat sink for proper heat dissipation, also integrated with a thermal shutdown (for heat protection) circuit. Allowing air around the cooling fins will improve heat dissipation dramatically. DO NOT enclose the amplifier in a small box or cover it so that air cannot flow around the cooling fins.

Temperatures in car trunks have been measured as high as (158' F) in the summer

time. Since the thermal shut-down point for the Amplifier is (160' F) it must be mounted for maximum cooling. To achieve maximum convection air flow in an enclosed trunk, mount the amplifier in a vertical position, on a vertical surface.

Cooling requirements are considerably relaxed when mounting inside the passenger compartment since the driver will not often allow temperatures to reach a critical point. Floor mounting under the seat is usually satisfactory as long as there is at least 1 inch (2.54cm) above the Amplifier's fins for ventilation.

To mount the Amplifier:
1. Use the amplifier as a template to mark the mounting holes.
2. Use extreme caution, inspect underneath surface before drilling.
3. Remove the Amplifier and drill the marked holes.
4. Secure the Amplifier using the screws provided.

ADJUSTMENT & TUNING

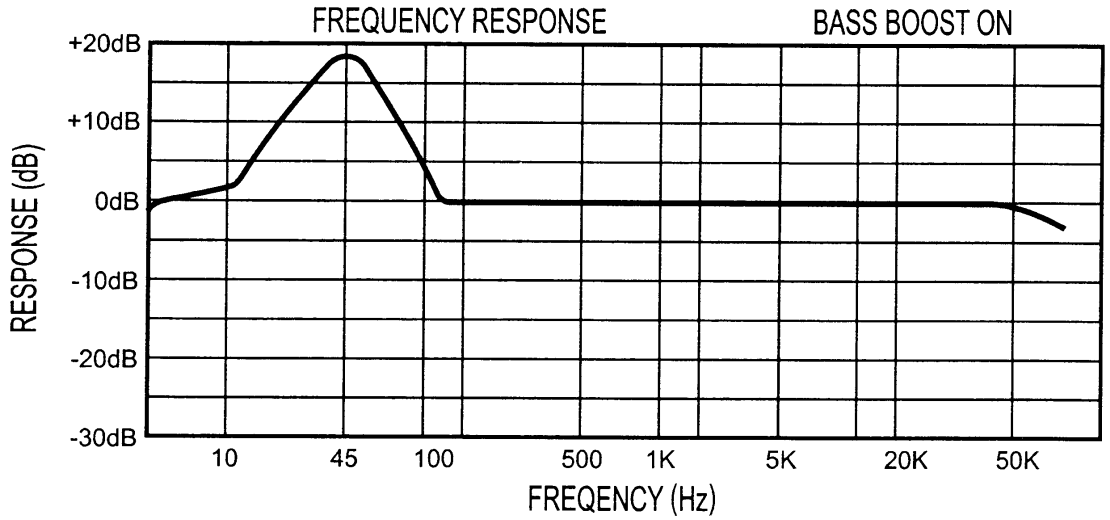
The amplifier automatically turns on a few seconds after you turn your vehicle's ignition switch to ACC or ON or turn on your auto sound system, depending on how you have wired the system. The POWER indicator on the side of the amplifier lights illuminates when the amplifier is on. Your amplifier requires power from your vehicle's battery during operation. To protect your battery from discharging, do not operate the amplifier unless your vehicle is running.

Note: Your amplifier temporarily shuts down if it gets too hot, then restarts automatically once it cools.

For the best performance, you must set LEVEL (MIN/MAX) on the side of the amplifier to adjust the level of the audio signals that enter the amplifier.

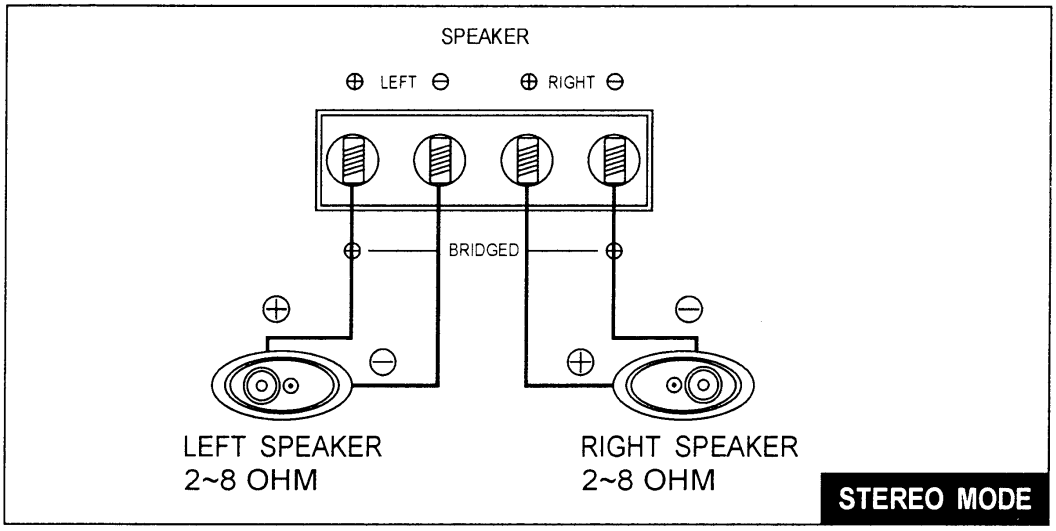
1. Use a screwdriver to turn LEVEL (MIN/MAX) fully counterclockwise to MIN.
2. Turn the auto sound system's volume control to about one -third of its full range.
3. Adjust LEVEL (MIN/MAX) to a comfortable listening level.
4. Turn up the auto sound system's volume control until the sound begins to distort. Then immediately turn the volume down to a point just before where the distortion began.
5. Adjust LEVEL (MIN/MAX) until the sound is at the level you want the amplifier to produce.
6. Adjust the auto sound systems volume control to a comfortable listening level.

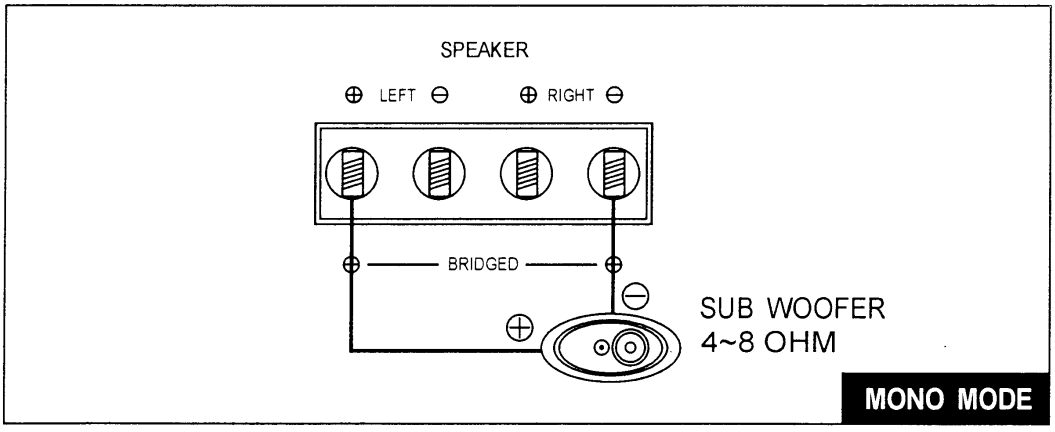
NOTE Raising the *LPF frequency allows higher frequencies* to reach *the bass speakers while blocking lower frequencies from midrange speakers. Lowering the Bass frequency allows lower frequencies to reach the midrange speakers while blocking higher frequencies from bass speakers.*



Wiring Diagram

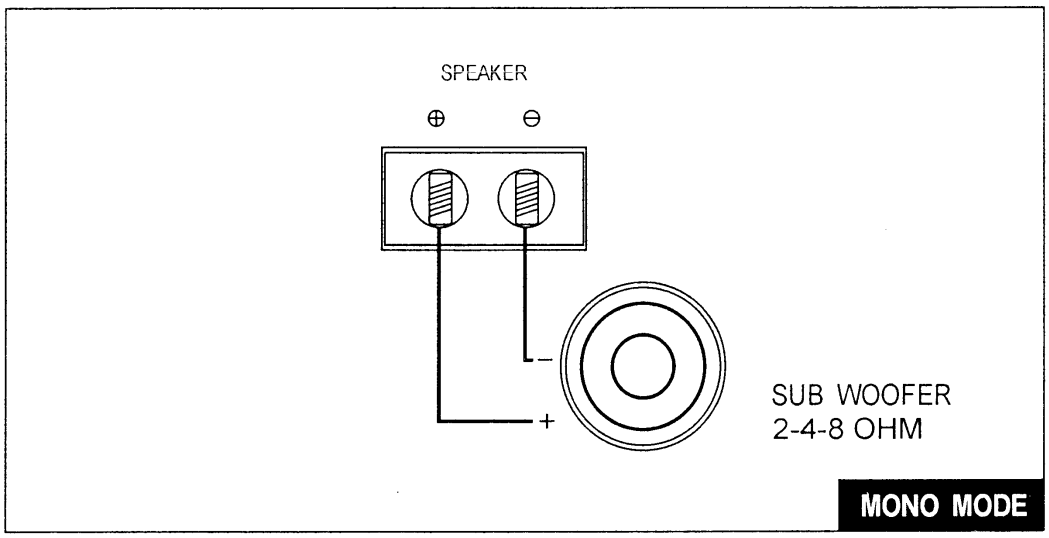
M300XE, M600XE, M700XE
2 Channel Amplifiers

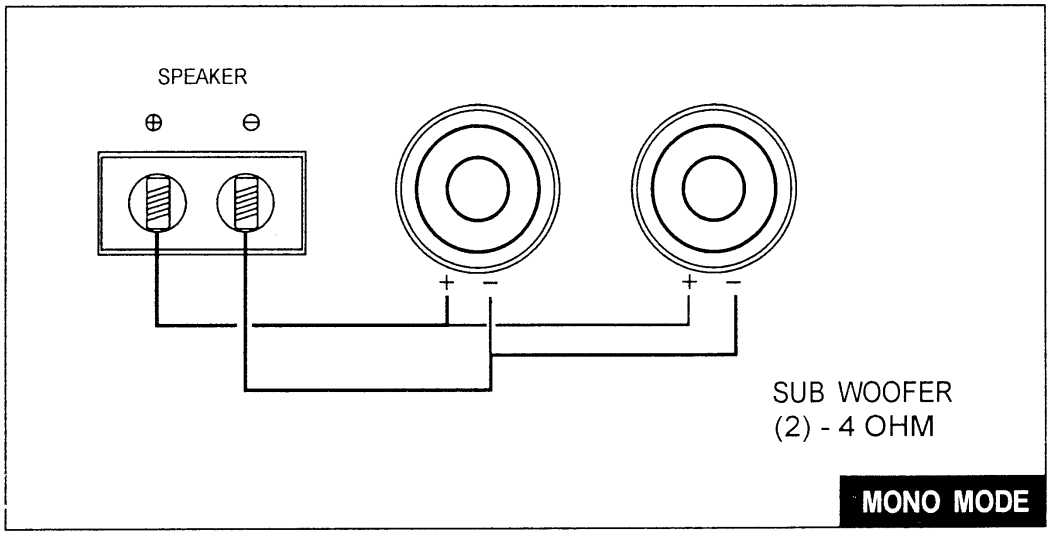




Wiring Diagram Continued...

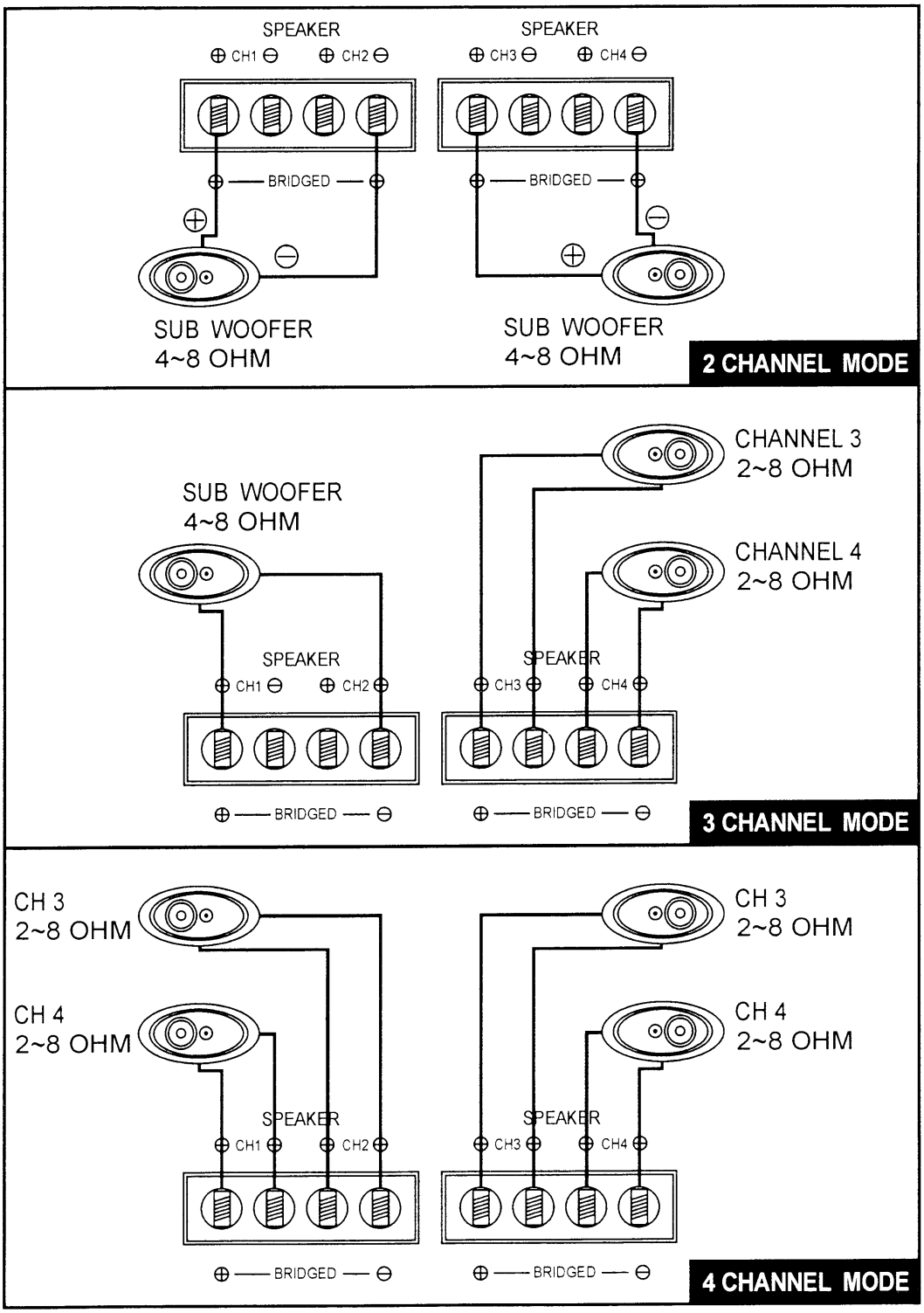
M1900XE
Mono Block Amplifier





Wiring Diagram Continued...

M500XE
4 Channel Amplifier



TROUBLE SHOOTING

SYMPTOM
NO SOUND.

CHECK POINT
Is the power LED illuminated?

CURE
1. Check fuses in amplifier.
2. Be sure Turn-on lead is connected.
3. Check signal leads.
4. Check gain control.
5. Check Tuner/Deck volume level.
6. Clean contacts on fuse holders.

CHECK POINT
Is the Overload LED illuminated?

CURE
Check for speaker short or amplifier overheating.

SYMPTOM
AMP NOT SWITCHING ON.

CHECK POINT
No power to power wire.

CURE
Repair power wire or connections.

Check point
No power to remote wire with Head Unit on.

CURE
Check connections to radio.

Check point
Fuse broken.

CURE
Replace Fuse.

SYMPTOM
NO SOUND IN ONE CHANNEL.

CHECK POINT
Check Speaker Leads.

CURE
Inspect for short circuit .
Check for open Connection.

CURE
Check Speaker Leads Reverse Left and Right RCA inputs to determine if it is occurring before the amp.

TROUBLE SHOOTING continued...

SYMPTOM
AMP TURNING OFF AT MED/HIGH VOLUME.

CHECK POINT
Check Speaker load impedance.

CURE
Inspect that speaker load impedance recommendations are followed. Check wiring configuration for speakers.(To Verify proper load impedance, use an OHM meter to measure the total load for each channel of the amplifier.

SYMPTOM
SYSTEM PROTECTION LED IS LIT

CHECK POINT
Temperature Shut-down.

CURE
Check for proper air ventilation
Change amplifier location

CHECK POINT
output shorted.

CURE
Check speaker wiring
Check for blown speaker by disconnecting
one at a time and check for LED change.

??Need More Technical Support??

Please Visit The Technical Support Page at:

www.MaAudio.com

LIMITED WARRANTY INFORMATION

• Length of Warranty

1 year on Video Products 2 years on Electronic Products 2 years on Speakers

• What is covered

Warranty applies only to MA Audio products sold to consumers by Authorized MA Audio Dealers in the United States of America or its possessions. Products purchased by consumers from Authorized MA Audio Dealer outside of the USA are covered only by that country's distributor.

• Who is covered

This warranty covers only the **original purchaser** of MA Audio product purchased from an Authorized MA Audio Dealer in the United States. For a list of Authorized Internet Retail Stores go to http://www.MaAudio.com. In order to receive service, the purchaser must provide MA Audio with a copy of the receipt stating the customer name, MA Audio Authorized dealer name, product purchased and date of purchase. Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at MA Audio's discretion.

• What is Not Covered

1. Damage caused by accident, abuse, improper operations, water, or theft.
2. Any cost or expense related to the removal or reinstallation of product.
3. Repair Service performed by anyone other than MA Audio's Repair Department.
4. Any product which has had the serial number defaced, altered, or removed.
5. Any product purchased outside the United States.
6. Any product not purchased from an Authorized MA Audio Dealer.

• Limit on Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for MA Audio any other liability in connection with the sale of the product.

• How to Obtain Service

1. Please call (310) 223-0400 for MA Audio Customer Service.
Customer Service hours : Monday-Friday, 8am-5pm Pacific Standard Time.
2. Obtain an RA # (Return Authorization Number) from Customer Service.
3. Obtain a "Cashiers Check" or "Money Order" for $9.00 per item for return postage.
(No personal Checks will be accepted)
4. Once you receive your return authorization number from our Warranty Department, please print this number **LARGE** on the outside of the packaging.
5. No products will be accepted without a Return Authorization number.
6. Please include the following items wi th the returned product:
a. Copy of the Original Receipt of purchase (Required)
b. Cashiers Check or Money Order for $15.00 per item
c. Return Address for shipment.

7. Ship to:

MA Audio
Warranty Department
18601 South Susana Road
Rancho Dominguez, CA 90221
RA#:_____

notes

WARNING

Investigate the layout of your automobile thoroughly before drilling or cutting any holes. Use extreme care when you work near the gas tanks, gas or hydraulic lines, and electrical wiring. Always make sure the power amplifier is securely mounted. Mounting the amplifier securely to the automobile will prevent damage to the car or injury to a person, particularly in the event of an accident.

Don't mount the system so that the wire connections are unprotected or are subject to pinching or damage from nearby objects.

The +12 VDC power wire must be fused at the battery positive terminal connection. Before making or breaking power connections at the system power terminals, disconnect the + 12V wire at the battery. Confirm your head unit and/or other equipment is turned off while connecting the input RCA jacks and speaker terminals.

If you need to replace the amplifier fuses, replace it only with a fuse identical to that supplied with the system. Using a fuse of different type or rating may result in damage to this system which isn't covered by the warranty.

MA Audio

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Rancho Dominguez,Ca 90221
F 310 223 0400
F 310 223 0412

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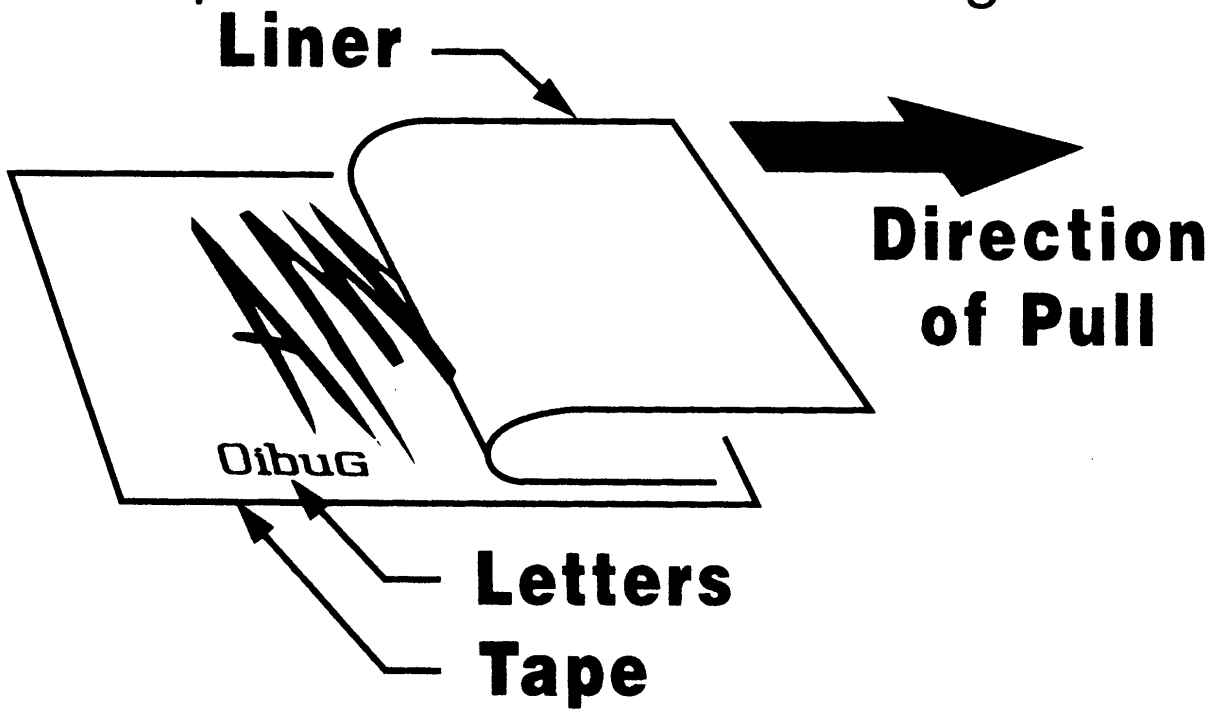
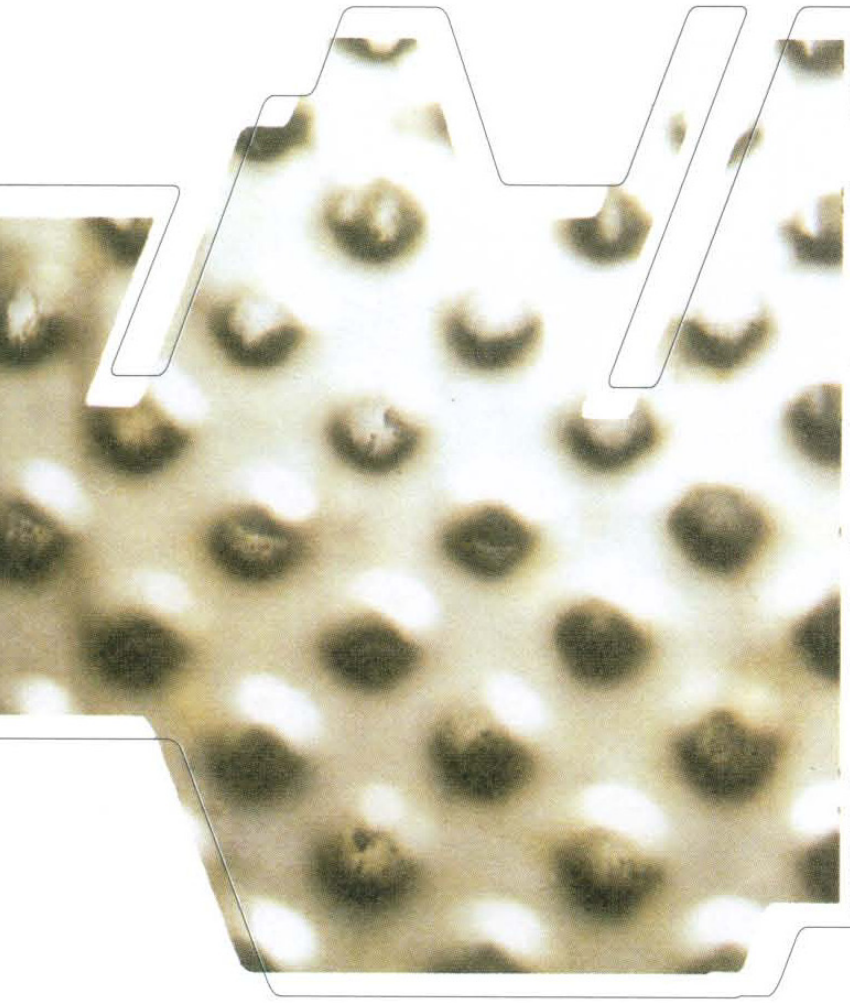
APPLICATION INSTRUCTIONS

1. Lay SIGN flat, tape side down. Pull Liner from tape and letters at 180 degree angle.



2. Roll or press tape and letters firmly into position on window.
3. After application, pull tape from letters at 180 degree angle.
4. Reroll or squeegee letters for positive adhesion.

Stamp



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MA Audio Survey Card

Fill this out and send it in or suffer the consequences.

www.maaudio.com

Model Purchased _____

Date Purchased _____

Purchased From

Name _____

City _____

State _____

Which of the following magazines do you read? Circle any.

Mobile Entertainment Auto Sound & Security DUB Magazine MAX Power

Car Stereo Review Car Audio & Elec Other Mags _____

Is this your first MA Audio purchase? Yes or No

If yes, which brands do you normally buy? _____

What brands did you consider before purchasing MA Audio? _____

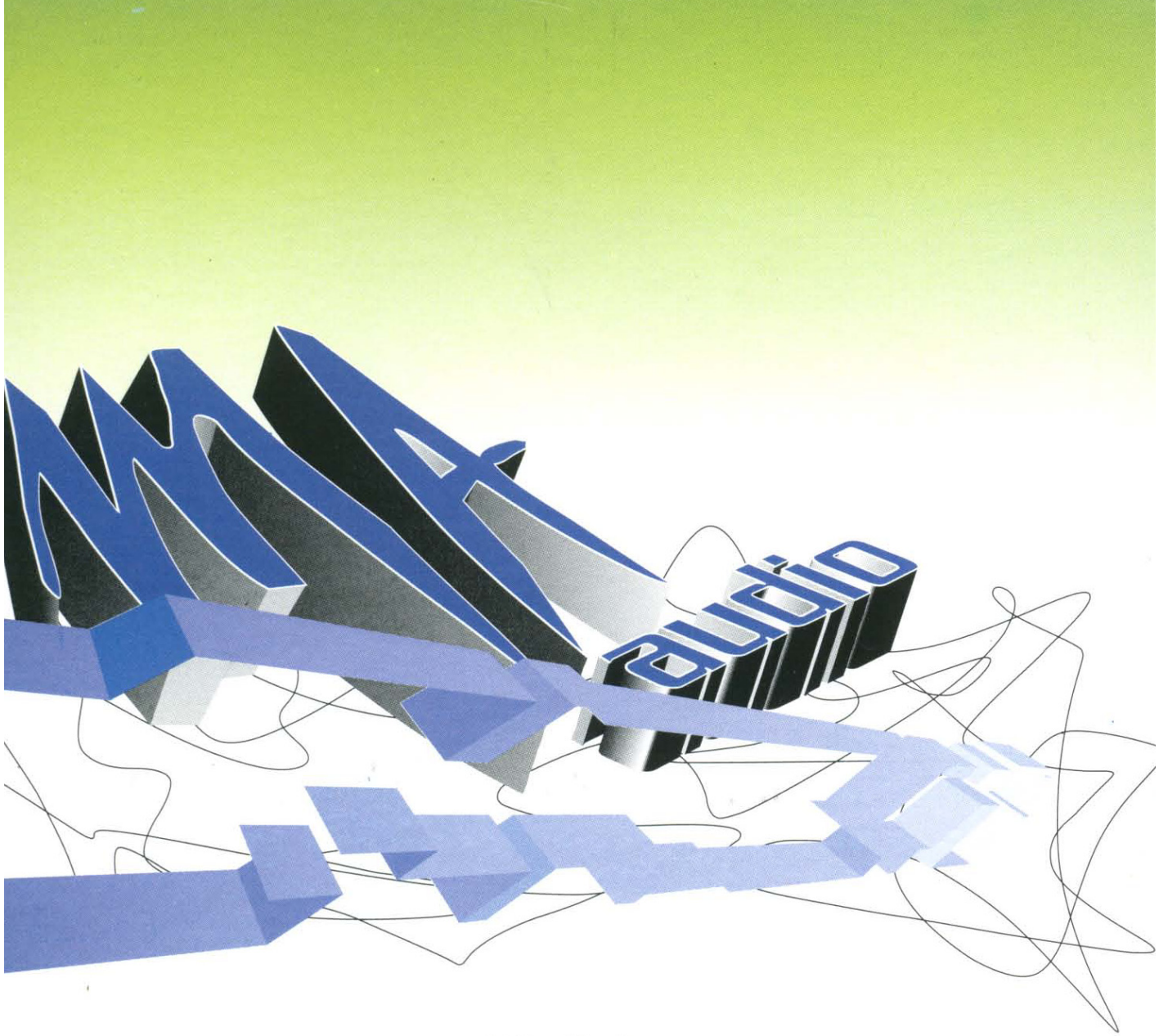
What factors influenced your purchase?

Quality Power Handling Appearance Reputation Friend Other _____

Your MA Audio equipment was installed by? Yourself or Professional Installer

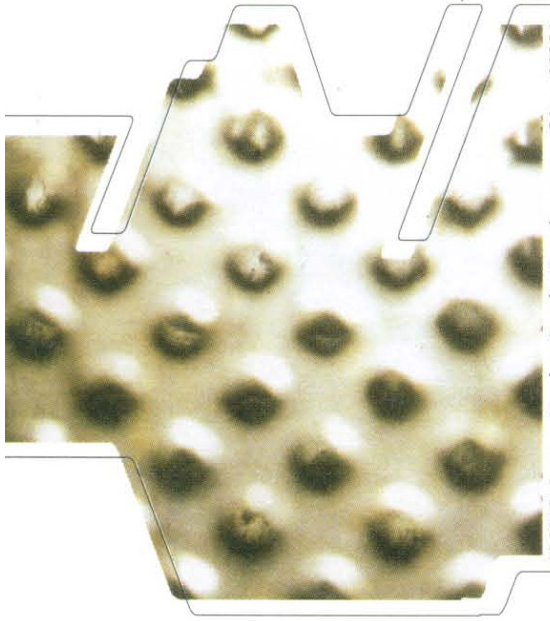
Was your MA Audio purchase an upgrade for your existing car stereo? Yes or No

Your Age _____ Gender M or F or Other Favorite Music Type _____



Fold and Tear Here

Stamp



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MA audio®

L I M I T E D W A R R A N T Y

www.maaudio.com

What is Covered	Who is Covered	What is Not Covered	Equivalent Limit/Implied Warranties
Warranty applies only to MA Audio products sold to consumers by authorized MA Audio dealers in the United States of America or its possessions. Products purchased by consumers from authorized MA Audio dealer outside of the USA are covered only by that country's distributor.	This warranty covers only the original purchaser of MA Audio Inc. product purchased from an authorized MA Audio dealer in the United States. For a list of authorized Internet retail stores go to http://www.maaudio.com. In order to receive service, the purchaser must provide MA Audio with a copy of the receipt stating the customer name, MA Audio authorized dealer name, product purchased and date of purchase Products found to be defective during the warranty period mill be repaired or replaced [with a product deemed to be equivalent] at MA Audio's discretion.	1> Damage caused by accident, abuse, improper operations, water or theft, 2> Any cost or expense related to the removal or reinstallation of product. 3> Repair service performed by anyone other than MA Audio's repair department. 4> Any product which has had the serial number defaced, altered or removed. 5> Any product purchased outside the USA. 6> Any product not purchased from an authorized MA Audio dealer.	Any implied werrenties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for MA Audio any other liability in connection with the sale of the product.

Length of Warranty • **1 year** on Video Products • **2 years** on Electronic Products • **2 years** on Speakers and Subwoofers

Your Records

Model Number _____

Date Purchased _____

Place of Purchase _____

Fold and Tear Here

This registration must be filled out and mailed within 10 days of purchase to validate warranty.

Name _____

Street _____

City _____ State _____ Zip _____

Model Number _____ Date Purchased _____

Place Purchased _____

Purchased For • *[Circle One]* Gift Replacement Speakers Competition Use To Cause Mayhem

If replacement, what is the name and model number of the system replaced?

Name _____

Model Number _____

Why did you purchase MA Audio speakers? • *[Circle One]* Sound Price Dealer Recommendation

Other _____

Additional Comments _____